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ZEOLITE CATALYST AND PREPARATION PROCESS FOR NO_x REDUCTION

Abstract of the Disclosure

A zeolite catalyst and a process for preparing a zeolite catalyst which is both capable of catalyzing the removal of nitrogen oxides from a gaseous medium across a broad temperature range and is operationally and hydrothermally stable at high reaction temperatures. The zeolite catalyst includes a zeolite carrier having a mole ratio of typically from about 14 to about 95 and copper ions supported on the zeolite carrier. The zeolite catalyst is prepared by providing a zeolite carrier, reacting copper with the zeolite carrier by carrying out an ion exchange reaction in a cupric salt aqueous solution at a temperature of between about 4°C and room temperature (25°C), and then drying and calcining the catalyst.